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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,729	. 04/27/2005	Shigeyoshi Kouno	P27797	8751
	7590 12/11/2007 & BERNSTEIN, P.L.C.	EXAMINER		
1950 ROLAND CLARKE PLACE			TALBOT, MICHAEL	
RESTON, VA	20191		ART UNIT	PAPER NUMBER
			3722	
			NOTIFICATION DATE	DELIVERY MODE
			12/11/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

	Application No.	Applicant(s)
•	10/532,729	KOUNO ET AL.
Office Action Summary	Examiner	Art Unit
•	Michael W. Talbot	3722
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING. Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory portail to reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re n. eriod will apply and will expire SIX (6) MON statute, cause the application to become AB.	CATION. eply be timely filed THS from the mailing date of this communication. EANDONED (35 U.S.C. § 133).
Status		•
1) Responsive to communication(s) filed on 1		
,	This action is non-final.	
3) Since this application is in condition for all	-	
closed in accordance with the practice und	iei Ex parte Quayle, 1955 C.D	. 11, 400 O.G. 210.
Disposition of Claims		
4) ⊠ Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) 1,2 and 11-15 is/s 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 3-10 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction a	/are withdrawn from considerat	lion.
Application Papers		
9)⊠ The specification is objected to by the Exa		
10)⊠ The drawing(s) filed on 27 April 2005 is/are		
Applicant may not request that any objection to		
Replacement drawing sheet(s) including the control of the control		
Priority under 35 U.S.C. § 119		
12) △ Acknowledgment is made of a claim for for a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority documents of the priority documents.	ments have been received.	
3. Copies of the certified copies of the		
application from the International B		
* See the attached detailed Office action for	a list of the certified copies not	received.
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94	Paper No(Summary (PTO-413) (s)/Mail Date Informal Patent Application
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/20/05.	6) Other:	

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 3-10 in the reply filed on 15 October 2007 is acknowledged.

In Applicant's response dated 15 October 2007, a provisional election was made without traverse to prosecute the invention of Group II, claims 3-10. Therefore Groups I,III and IV comprising claims 1,2 and 11-15 are withdrawn from further consideration by the examiner, pursuant to 37 CFR 1.142(b), as being drawn to a non-elected invention.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: (1) character reference "41" shown in Fig. 1. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly

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labeled as "Annotated Sheets" and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

Specification

3. The disclosure is objected to because of the following informalities:

Refer to page 3, line 20, change the word "dap" to --tap-- within the phrase "at the dap die is an obstacle" so as to read --at the tap die is an obstacle--.

Refer to page 11, line 27, character reference "small diameter through hole 61" should be changed so as to read --small diameter through hole 61H--.

Refer to page 18, line 7, character reference "not-rotating head 181" should be changed so as to read --non-rotating head 181--.

Refer to page 20, line 7, change the word "he" to --the-- within the phrase "he prepared hole" so as to read --the prepared hole--.

Refer to page 21, lines 8 and 9, the two occurrences of character reference "space 46" should be changed so as to read --space 246--.

Appropriate correction is required.

Claim Objections

4. Claim 1 is objected to because of the following informalities:

Claim 1 recites the limitation "the vertical direction" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 6. Claims 3 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Endo et al. '239. Endo et al. '239 shows in Figures 1-5 a tapping device (3,5,7,9,11) comprising a tap holder (37A,37B) provided in a shank body (27) which can be freely attached to a rotating mold indexing device (5) rotatably provided at a punch press (1) so as to be moveable in a vertical direction, the tap holder having a tap (49A,49B) at its lower end and being provided so as to be movable only in the vertical direction and urged upwards (via lifter spring 31). Endo et al. '239 shows a downward movement transmitter (13) for transmitting downward motion of a ram (13) provided at the punch press so as to be moveable in the vertical direction to the tap holder, the downward movement transmitter being at an upper part of the shank body. Endo et al. '239 shows a work piece brace (piece at bottom of 27 at 49A,49B) rotatably provided at a lower end of the shank body.
- 7. Claims 3 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 11005127. JP 11005127 shows in Figures 3 and 5 a tapping device (1,3) comprising a tap holder (7) provided in a shank body (31,33) which can be freely attached to a rotating mold indexing device (3) rotatably provided at a punch press so as to be moveable in a vertical direction, the tap holder having a tap (19) at its lower end and being provided so as to be movable only in the vertical direction and urged upwards (via lifter spring 13). JP 11005127 shows a downward movement transmitter (9,27,35) for transmitting downward motion of a ram (53) provided at the punch press so as to be moveable in the vertical direction to the tap holder, the downward movement transmitter being at an upper part of the shank body. JP 11005127 shows the downward movement transmitter having a pressing device (9) for pressing the tap holder downward by fluid pressure supplied from the ram (via 39,55) and a shock absorber (35).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al. '239 in view of JP 11005127. Endo et al. '239 further shows an elastic member (45) which can freely transmit downward motion of the ram at the downward movement transmitter to lower the tap holder against upward energizing force of the tap holder. Endo et al. '239 lacks an oil channel for guiding oil supplied from the ram to the tap within the downward movement transmitter and the tap holder.

JP 11005127 shows in Figures 3 and 5 a tapping device (1,3) comprising a tap holder (7) provided in a shank body (31,33) and a downward movement transmitter (9,27,35) for transmitting downward motion of a ram (53). JP 11005127 shows an oil channel (55,39,41,43,45) for guiding oil supplied from the ram (via 55) to the tap within the downward movement transmitter and the tap holder (via 39,41,43,45). In view of this teaching of JP 11005127, it would have been obvious to one of ordinary skill in the art to modify the tapping device of Endo et al. '239 to include an oil channel from the ram to the tap as taught by JP 11005127 to provide coolant/oil mist to the cutting surface for reducing wear and heat generation at the tapping tool and work piece interface, thus increasing the tapping effectiveness and overall operational life expectancy.

10. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 11005127 in view of Endo et al. '239. JP 11005127 further shows an oil channel

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(55,39,41,43,45) for guiding oil supplied from the ram (via 55) to the tap within the downward movement transmitter and the tap holder (via 39,41,43,45). JP 11005127 further shows an elastic member (35) which can freely transmit downward motion of the ram at the downward movement transmitter to lower the tap holder against upward energizing force of the tap holder. JP 11005127 lacks work piece brace rotatably provided at a lower end of the shank body.

Endo et al. '239 shows in Figures 1-5 a tapping device (3,5,7,9,11) comprising a tap holder (37A,37B) provided in a shank body (27) and a work piece brace (piece at bottom of 27 at 49A,49B) rotatably provided at a lower end of the shank body. In view of this teaching of Endo et al. '239, it would have been obvious to one of ordinary skill in the art to modify the tapping device of JP 11005127 to include a work piece brace on the shank body as taught by Endo et al. '239 to provide a direct means to secure/stabilize the work piece in place for improved tapping accuracy and efficiency.

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 12. Any inquiry concerning the content of this communication from the examiner should be directed to Michael W. Talbot, whose telephone number is 571-272-4481. The examiner's office hours are typically 8:30am until 5:00pm, Monday through Friday. The examiner's supervisor, Mrs. Monica S. Carter, may be reached at 571-272-4475.

In order to reduce pendency and avoid potential delays, group 3720 is encouraging FAXing of responses to Office Actions directly into the Group at FAX number 571-273-8300. This practice may be used for filling papers not requiring a fee. It may also be used for filling papers, which require a fee, by applicants who authorize charges to a USPTO deposit account. Please identify Examiner Michael W. Talbot of Art Unit 3722 at the top of your cover sheet.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MWT

Examiner

3 December 2007

MONICA S. Center

MONICA CARTER

SUPERVISORY PATENT EXAMINE